

Table I
Influence of the
Intracellular Environment

Cellular Property	Is it the same after removal from the cell?
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1. DNA, RNA (sequence, quantity)	Yes
2. Protein (identity, conc.)	Likely
3. Activity	Usually Not

Table II

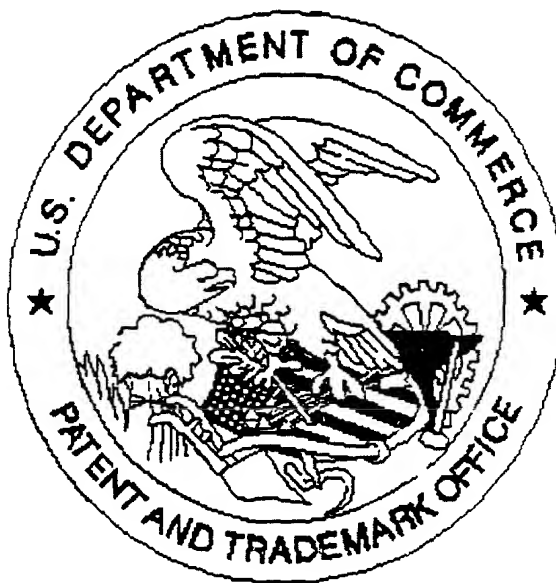
Cellular Properties Are Distinguished By Their Timescales

DNA & RNA “Genomics”	Minutes - Years
Protein “Proteomics”	Seconds - Hours
Activity “Signaling”	Milliseconds - Seconds

Table III

A Sampling Of Available Technologies		
Field	Property	Technologies
1. Genomics	DNA, RNA	DNA Arrays
2. Proteomics	Protein Identity & Conc.	Protein Gels/Arrays Mass Spec.
3. Signaling	Activity	GFP-Based Methods Critical Need

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